

Title (en)  
ASSAY DEVICE

Title (de)  
TESTVORRICHTUNG

Title (fr)  
DISPOSITIF DE DOSAGE

Publication  
**EP 3338078 A1 20180627 (EN)**

Application  
**EP 16756771 A 20160819**

Priority  
• GB 201514730 A 20150819  
• GB 2016052586 W 20160819

Abstract (en)  
[origin: GB2541424A] An assay device for quantitatively determining analyte concentration in a liquid sample comprises a light-transmissive lateral flow membrane 46 having multiple test regions 41, 41A; planar organic light emitting diodes (OLEDs) 44, 44B; planar organic photodetectors (OPDs) 49, 49B; wherein each test region is aligned with the emission layer of one emitter and the absorption layer of one photodetector, the aligned emitter, photodetector, and test region forming a group; wherein for each group, when the test region is wet and devoid of tagging particles, e.g. fluorescent tagging particles, cross-talk  $C = 20 \log_{10} (I_1/(I_2-I_1))$  is greater than 20 dB for at least one group, with I1 the energised photodetector photocurrent with the group emitter energised, and I2 that with the group emitter and one other emitter energised. The emitter and detector may be formed on a common substrate which is folded about the lateral flow membrane.

IPC 8 full level  
**G01N 21/64** (2006.01); **G01N 21/84** (2006.01); **G01N 33/53** (2006.01)

CPC (source: EP GB KR US)  
**B01L 3/5023** (2013.01 - EP KR US); **G01N 21/6428** (2013.01 - US); **G01N 21/6454** (2013.01 - EP KR US); **G01N 21/77** (2013.01 - GB KR); **G01N 21/8483** (2013.01 - EP GB KR US); **G01N 33/53** (2013.01 - GB); **G01N 33/54388** (2021.08 - US); **G01N 33/558** (2013.01 - EP KR); **B01L 2300/0636** (2013.01 - EP KR US); **B01L 2300/0654** (2013.01 - EP KR US); **B01L 2300/0825** (2013.01 - EP KR US); **B01L 2300/0887** (2013.01 - EP KR US); **B01L 2300/12** (2013.01 - KR); **B01L 2400/0406** (2013.01 - KR US); **G01N 2021/6439** (2013.01 - KR US); **G01N 2201/0221** (2013.01 - EP KR US)

Citation (search report)  
See references of WO 2017029523A1

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AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

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BA ME

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